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SHEET 1 OF 2

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Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)	ATTY. DOCKET NO. 8733.039.20	SERIAL NO. TBA
	APPLICANT Jae Beom CHOI et al.	
	FILING DATE July 17, 2000	GROUP 2872

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
CNE	AA	2,810,324	10/1957	Marks			
CNE	AB	3,912,920	10/1975	Kubota			
CNE	AC	5,889,571	03/1999	Kim et al.			
CNE	AD	5,909,265	06/1999	Kim et al.			
CNE	AE	5,982,466	11/1999	Choi et al.			

FOREIGN PATENT DOCUMENTS							
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CNE	AF	3-120503	05/1991	Japan			
CNE	AG	3-241311	10/1991	Japan			
CNE	AH	5-19209	01/1993	Japan			
CNE	AI	7-318861	12/1995	Japan			
CNE	AJ	10-90684	01/1998	Japan			
CNE	AK	10-161126	06/1998	Japan			
CNE	AL	10-154658	06/1998	Japan			
CNE	AM	10-332932	12/1998	Japan			
CNE	AN	11-194344	07/1999	Japan			
CNE	AO	11-194345	07/1999	Japan			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
CNE	AP	Hecht, "Optics," Addison-Wesley Publishing co., 2 nd Edition, pp:298-99.
CNE	AQ	Jenkins, Francis A., Harvey E. White, Fundamentals of Optics 3 rd edition, pp: 492-3.
CNE	AR	M. Nam et al., "Wide-Viewing-Angle TFT-LCD with Photo-Aligned Four-Domain TN Mode," SID 97 Digest, pp: 933-6.

EXAMINER <i>Draig H. Curtis</i>	DATE CONSIDERED 19 April 2002
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CNC	AA	5,824,377	10/1998	Pirwitz et al.			
CNC	AB	5,853,818	12/1998	Kwon et al.			
CNC	AC	5,859,682	01/1999	Kim et al.			
CNC	AD	5,882,238	03/1999	Kim et al.			
CNC	AE	5,389,698	02/1995	Chigrinov et al.			

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CNC	AF	7-56173	03/1995	Japan		
CNC	AG	8-334790	12/1996	Japan		
CNC	AH	9-211468	08/1997	Japan		
CNC	AI	96/22561	07/1996	WIPO		
CNC	AJ	2 281 977	03/1995	UK		
CNC	AK	2 286 893	08/1995	UK		
CNC	AL	2 310 048	08/1997	UK		
CNC	AM	2-55330	02/1990	Japan		
CNC	AN	2-298917	12/1990	Japan		
CNC	AO	3-36527	02/1991	Japan		

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

CNC	AP	M. Schadt et al., "Invited Paper: Optical Patterning of Multidomain LCDs," SID 97 Digest, pp: 397-400.				
CNC	AQ	K. Han et al., "A Study on the Photo-Alignment of the Polymer-Containing Cinnamate Group Using a New Single UV-Exposure Method," SID 97 Digest, pp: 707-10.				
CNC	AR	F. Yamada et al., "Late-News Poster: A New Photo-Alignment Scheme for LC-Cell Pretilt Control," SID 97 Digest, pp: 715-8.				

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CNC	AA	5,657,105	08/1997	McCartney			
CNC	AB	5,712,696	01/1998	Toko et al.			
CNC	AC	5,764,326	06/1998	Hasegawa et al.			
CNC	AD	5,767,994	06/1998	Kang et al.			
CNC	AE	5,784,139	07/1998	Chigrinov et al.			

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CNC	AF	4-7520	01/1992	Japan			
CNC	AG	4-284421	10/1992	Japan			
CNC	AH	4-350822	12/1992	Japan			
CNC	AI	5-34699	02/1993	Japan			
CNC	AJ	5-53513	03/1993	Japan			
CNC	AK	5-232473	09/1993	Japan			
CNC	AL	7-261185	10/1995	Japan			
CNC	AM	0 525 473	02/1993	EPO			
CNC	AN	0 525 478	02/1993	EPO			
CNC	AO	0 611 786	07/1996	EPO			

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CNC	AP	D. Seo et al., "Invited Address: Surface Alignment of Liquid Crystals in LCDs," SID 93 Digest, pp: 954-6.
CNC	AQ	Y. Iimura, "Invited Address: Prospects of the Photo-Alignment Technique for LCD Fabrication," SID 97 Digest, pp: 311-4.
CNC	AR	R. Shashidhar et al., "A New Non-Rubbing Technique for Liquid-Crystal Alignment," SID 97 Digest, pp: 315-8.

EXAMINER <i>Draight H. Curtis</i>	DATE CONSIDERED <i>19 April 2002</i>
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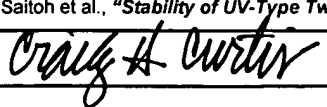

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CML	AA	5,539,074	07/1996	Herr et al.			
CML	AB	5,576,862	11/1996	Sugiyama et al.			
CML	AC	5,578,351	11/1996	Shashidhar et al.			
CML	AD	5,602,661	02/1997	Schadt et al.			
CML	AE	5,604,615	02/1997	Iwagoe et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
CML	AF	0 708 354	04/1996	EPO		
CML	AG	0 742 471	11/1996	EPO		
CML	AH	0 750 212	12/1996	EPO		
CML	AI	44 20 585	12/1995	Germany		
CML	AJ	64-60833	03/1989	Japan		
CML	AK	1-251344	10/1989	Japan		
CML	AL	1-251345	10/1989	Japan		
CML	AM	0 635 748	01/1995	EPO		
CML	AN	95/34843	12/1995	WIPO		
CML	AO	0 788 012	08/1997	EPO		

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
CML	AP	K. Lee et al., "Late-News Poster: Mechanism of UV Modification of LC Pretilt Angle and Its Application to Two-Domain TN-LCDs," SID 96 Digest, pp: 638-41.
CML	AQ	J. Kim et al., "Late News Poster: Photo-Alignment of Liquid Crystals Using a New Photopolymer," SID 96 Digest, pp: 646-9.
CML	AR	Y. Saitoh et al., "Stability of UV-Type Two-Domain Wide-Viewing Angle TFT-LCD Panels," SID 96 Digest, pp: 662-5.

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one	AA	5,447,662	09/1995	Herr et al.			
one	AB	5,453,862	09./1995	Toko et al.			
one	AC	5,464,669	11/1995	Kang et al.			
one	AD	5,479,282	12/1995	Toko et al.			
one	AE	5,538,823	07/19196	Park et al.			

FOREIGN PATENT DOCUMENTS					
DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
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AF	2 317 964	04/1998	UK		
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one	AP	J. Chen, "Model of liquid crystal alignment by exposure to linearly polarized ultraviolet light," Physical Review E, Vol. 54, No. 2, August 1996, pp: 1599-603.
one	AQ	H. Soh et al., "The Realization of Wide Viewing Angle TFT-LCDs Using Photo-Alignment Method," Euro Display 96, pp: 579-82.
one	AR	J. Chen, "Mechanism of Liquid-Crystal Alignment by Polyimide Exposure to Linearly Polarized UV Light," SID 96 Digest, pp: 634-7.

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<i>all</i>	AA	4,974,941	12/1990	Gibbons et al.			
<i>all</i>	AB	5,032,009	07/1991	Gibbons et al.			
<i>all</i>	AC	5,073,294	12/1991	Shannon et al.			
<i>all</i>	AD	5,296,321	03/1994	Kawanishi et al.			
	AE						

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<i>all</i>	AP	A. Lien, <i>UV-Type Two-Domain Wide Viewing Angle TFT/LCD Panels</i> , Asia Display 95, pp: 593-6.
<i>all</i>	AQ	T. Yamamoto, <i>Liquid-Crystal Alignment by Slantwise Irradiation of Non-Polarized UV Light on a Polyimide Layer</i> , SID 96 Digest, pp: 642-5.
<i>all</i>	AR	M. Schadt et al., <i>Optical patterning of multi-domain liquid-crystal displays with wide viewing angles</i> , Letters to Nature, Vol. 381, 05/16/96.

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Dr. H. C. Curtis

DATE CONSIDERED

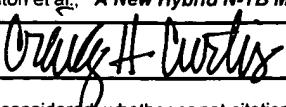
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CUC	AP	J. West et al., "Polarized UV-Exposed Polyimide Films for Liquid-Crystal Alignment," SID 95 Digest, pp: 703-5.
mc	AQ	T. Hashimoto et al., "TN-LCD with Quartered Subpixels Using Polarized UV-Light-Irradiated Polymer Orientation Films," SID 95 Digest, pp: 877-80.
mc	AR	T. Saitoh et al., "A New Hybrid N-TB Mode LCD with Two Domain Pixels Fabricated Using a Photopolymer," Asia Display, pp: 589-92.
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<i>all</i>	AP	A. Lien et al., "UV modification of surface pretit of alignment layers of multidomain liquid crystal displays," Appl. Phys. Lett. 62 (21), 11/20/95, pp: 3108-11.
<i>all</i>	AQ	M. Hasegawa, "Nematic Homogeneous Photo Alignment by Polyimide Exposure to Linearly Polarized UV," Journal of Photopolymer Science and Technology, Vol. 8, No. 2, 1995, pp: 241-8.
<i>all</i>	AR	M. Schadt, "Investigation of the Mechanism of the Surface-Induced Alignment of Liquid Crystals by Linearly Polymerized Photopolymers," SID 95 Digest, pp: 528-31.

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<i>Cue</i>	AP	P. Shannon et al., "Patterned optical properties in photopolymerized surface-aligned liquid-crystal films," Letters to Nature, Vol. 368, 04/07/94, pp: 532-3.
<i>me</i>	AQ	Y. Iimura et al., "Invited Address: Electro-Optic Characteristics of Amorphous and Super-Multidomain TN-LCDs Prepared by a Non-Rubbing Method," SID 94 Digest, pp: 915-8.
<i>me</i>	AR	M. Schadt et al., "Photo-Generation of Linearly Polymerized Liquid Crystal Aligning Layers Comprising Novel, Integrated Optically Patterned Retarders and Color Filters," Jpn. J. Appl. Phys. Vol. 34 (1995), pp: 3240-9, Part 1, No. 6A, June 1995.

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<i>me</i>	AP	Kunihiro Ichimura, "Photocontrol of Liquid Crystal Alignment," 1993.
<i>me</i>	AQ	T. Marushii et al., "Photosensitive Orientants for Liquid Crystal Alignment," Mol. Mat. 1993, Vol. 3, pp: 161-8.
<i>me</i>	AR	Y. Toko et al., "TN-LCDs Fabricated by Non-Rubbing Showing Wide and Homogeneous Viewing Angular Characteristics and Excellent Voltage Holding Ratio," SID 93 Digest, pp: 622-5.

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	AP	W. Gibbons et al., "Surface-mediated alignment of nematic liquid crystals with polarized laser light," Letters to Nature, Vol. 351, 05/02/1991, pp: 49-50.
	AQ	Martin Schadt, "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers," Jpn. J. Appl. Phys. Vol. 31 (1992), Part 1, No. 7, July 1992.
	AR	Yasufumi Iimura et al., "Alignment Control of a Liquid Crystal on a Photosensitive Polyvinylalcohol Film," Jpn. J. Appl. Phys. Vol. 32 (1993), Part 2, No. 1A/B, 04/15/93.

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<i>mc</i>	AP	Tong Kun LIM et al., "Tilting of Liquid Crystal through Interaction with Methyl Orange Molecules Oriented by Circularly Polarized Light," Jpn. J. Appl. Phys., Vol. 35 (1996), Part 2, No. 10A, 1 October 1996, pp: 1281-3.
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